Module designation	Extension Science and Education				
Semester(s) in which the	Odd semester				
module is taught					
Person responsible for the module	Prof. Ir. Budi Guntoro, S.Pt., M.Sc., Ph.D., IPU., ASEAN Eng. Ir. F. Trisakti Haryadi, M.Si., Ph.D., IPM. Ir. Endang Sulastri, S.Pt., M.A., Ph.D., IPM. Dr. Ir. Siti Andarwati, S.Pt., M.P., IPM.				
Language	Bahasa and English				
Relation to curriculum	Specialization's Elective				
Teaching methods	Classical lecture and discussion				
Workload (incl. contact hours,	Total workload: 79 hours				
self-study hours)	Contact hours: - Lecture: 23 hours - Academic activity: 28 hours Private study: 28 hours				
Credit points	2/0				
Required and recommended prerequisites for joining the module	None				
Module objectives/intended learning outcomes	<ul> <li>Course Outcomes(CO): <ol> <li>Able to explain the fundamentality and philosophy of extension science and its roles in livestock-industry development.</li> <li>Able to evaluate the learning process in extension based the principle of andragogy and theory of adult learning.</li> <li>Able to evaluate methods and approaches in livestock-based extension.</li> <li>Able to analysis program planning, evaluation &amp; diffusion and adoption of innovations in extension.</li> </ol> </li> <li>Expected Learning Outcomes: <ol> <li>Attitudes and Behaviors:</li> <li>Showing the social sensitivity and attention to the community and environment by respecting the culture diversity, view, religious, beliefs, and other people's opinion, and also obey the rules. (CO1, CO2, CO3, CO4)</li> <li>Be accountable in carrying the professional practice that includes ability to accept accountability towards decision and professional action. It shall be according to the scope of the practice under their responsibility and laws. (CO1)</li> <li>Mastery in Sciences: <ol> <li>Able to master the livestock production science, animal nutrition and fed science, animal products technology, and the livestock social economics in relation to food security and environment. (CO1, CO2, CO3)</li> <li>Able to master the design, management, and development of livestock research. (CO4)</li> </ol> </li> </ol></li></ul>				
	<ul><li>(CO2, CO3, CO4)</li><li>2. Able to solve problems and anticipate issues in the development of animal science and industry. (CO2, CO3,</li></ul>				

- General skills:         1. Able to develop logical, critical, systematic, and creative thought through scientific research, creation of design in the science and technology, which pays attention and applies humanity values according to their expertise. The graduates are able to arrange scientific concept and the study result based on the principles, procedures, and scientific ethics. (CO1, CO2, CO3, CO4)         2. Able to make a decision in the context of solving problems in the development of science and technology, which pays attention and applies humanity values based on analysis study or experiment towards information and data. (CO1, CO2, CO3, CO4)         3. Able to communicate spoken and written English effectively by using the information technology, which pays attention, and applies humanity values based on analysis study or experiment towards information technology, which pays and theory of animal science and its implementation. (CO1, CO2, CO3, CO4)         Content       This two credits course covers the fundamentality and philosophy of extension science and education, the principle of andragogy, and theory of andragogy. Students will also discuss the extension methods and approaches, planning, evaluation of extension and diffusion, and innovation adoption.         Exams and assessment formats       Course Course (CO)       Percentage (%)         1. Midterm exam, paper assignment)       Signmenth       CO1 & CO2       30         2. Final exam (written test, take home exam, paper assignment)       CO1 & CO2       20       4         3. Presentation       CO1 & CO2       20       4       75-79.9       C       40-44.9       A<		CO4)					
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